

What is claimed is:

- 1 1. An apparatus, comprising
2 an electronic device adapted to transmit data indicating a predicted duration of a
3 subsequent transmission from the electronic device.
- 1 2. The apparatus of claim 1, wherein the electronic device is adapted to transmit the
2 data in response to a training poll.
- 1 3. The apparatus of claim 1, wherein the electronic device is adapted to transmit the
2 data in response to a data poll.
- 1 4. The apparatus of claim 1, wherein the electronic device comprises a wireless
2 mobile device.
- 1 5. The apparatus of claim 1, wherein the apparatus comprises:
2 a computing platform; and
3 an antenna coupled to the computing platform.
- 1 6. The apparatus of claim 5, wherein the apparatus further comprises a
2 modulator/demodulator coupled between the computing platform and the antenna.
- 1 7. An apparatus, comprising

2 a first electronic device adapted to:
3 organize multiple second electronic devices into a group having similar
4 predicted durations for data transmissions, and
5 transmit polls substantially simultaneously to ones of the second electronic
6 devices within the group.

1 8. The apparatus of claim 7, wherein the first electronic device is further adapted to
2 receive the data transmissions from the second electronic devices within the group
3 substantially simultaneously.

1 9. The apparatus of claim 7, wherein the first electronic device is further adapted to
2 transmit acknowledgements to the wireless devices within the group substantially
3 simultaneously.

1 10. The apparatus of claim 7, wherein the first electronic device is further adapted to
2 transmit polls to other second electronic devices within another group substantially
3 simultaneously.

1 11. The apparatus of claim 7, wherein the first electronic device is further adapted to
2 receive the predicted durations in transmissions from the second electronic devices.

1 12. The apparatus of claim 7, wherein the first electronic device is further adapted to
2 determine the predicted durations based on durations of previously received transmissions
3 from the second electronic devices.

1 13. The apparatus of claim 7, wherein the apparatus comprises:
2 a computing platform; and
3 at least four antennas coupled to the computing platform.

1 14. The apparatus of claim 13, wherein the apparatus further comprises at least four
2 modulator/demodulators coupled between the computing platform and the at least four
3 antennas.

1 15. A method, comprising:
2 organizing multiple electronic devices into a first group having indicators for
3 predicted durations of subsequent transmissions within a particular range of a first value
4 and into a second group having indicators for predicted durations of subsequent
5 transmissions within a particular range of a second value;
6 transmitting data polls to the electronic devices in the first group substantially
7 simultaneously; and
8 transmitting data polls to the electronic devices in the second group substantially
9 simultaneously, subsequent to said transmitting to the electronic devices in the first group.

1 16. The method of claim 15, further comprising receiving the indicators for the
2 predicted durations in transmissions from the electronic devices, prior to said organizing.

1 17. The method of claim 15, further comprising determining the indicators for the
2 predicted durations based on durations of previously received transmissions from the
3 electronic devices, prior to said organizing.

1 18. A method, comprising
2 transmitting an indicator of a duration of a subsequent transmission.

1 19. The method of claim 18, further comprising
2 transmitting the indicator in response to a training poll.

1 20. The method of claim 18, further comprising
2 transmitting the indicator in response to a data poll.

1 21. A machine-readable medium that provides instructions, which when executed by a
2 processing platform, cause said processing platform to perform operations comprising:
3 organizing multiple electronic devices into a first group having indicators for
4 predicted durations of subsequent transmissions within a particular range of a first value
5 and into a second group having indicators for predicted durations of subsequent
6 transmissions within a particular range of a second value;

7 transmitting data polls to the electronic devices in the first group substantially
8 simultaneously; and
9 transmitting data polls to the electronic devices in the second group substantially
10 simultaneously, subsequent to said transmitting to the electronic devices in the first group.

1 22. The medium of claim 21, wherein the operations further comprise receiving the
2 indicators for the predicted durations in transmissions from the electronic devices, prior to
3 said organizing.

1 23. The medium of claim 21, wherein the operations further comprise determining the
2 indicators for the predicted durations based on durations of previously received
3 transmissions from the electronic devices, prior to said organizing.

1 24. A machine-readable medium that provides instructions, which when executed by a
2 processing platform, cause said processing platform to perform operations comprising:
3 transmitting an indicator of a duration of a subsequent transmission.

1 25. The medium of claim 24, wherein the operations further comprise
2 transmitting the indicator in response to a training poll.

1 26. The medium of claim 24, wherein the operations further comprise
2 transmitting the indicator in response to a data poll.